

TECHNICAL DATA

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THIS CHEMICAL IS
FORMULATED FOR

WARNING INDUSTRIAL USE ONLY

Contact with skin or clothing or other improper handling or use of this product may result in bodily harm or other damage. Before using or mixing the contents with other substances, all labels applied to container, the applicable Technical Data Sheet and Material Safety Data Sheet should be read and specific instructions and precautions followed to assure correct use and personal safety.

ANOLIFE X70

NEW PROCESS FOR ALUMINIUM ANODISING

PRODUCT DESCRIPTION

The ANOLIFE X70 anodising process is a modification of the conventional sulphuric acid electrolyte.

ANOLIFE X70 protects the newly formed anodic coating from the electrolyte during the anodising process, thereby increasing the efficiency of the coating formation. As a consequence harder coatings at higher temperatures (25-30 degree Celcius) are achieved compared to conventional coatings at temperatures higher the 25 degrees Celcius.

ADVANTAGES

- ANOLIFE X70 anodising process avoids the formation of soft oxide or burning whilst allowing anodising to be carried out at a temperature between 25 and 30 degrees Celcius.
- ANOLIFE X70 reduces the speed of "build-up" of aluminium concentration, giving increased life to the anodising solution, by as much as 3-4 times.
- Reduced consumption of sulphuric acid.
- Lower energy consumption due to the reduction in cooling necessary.
- Fewer effluent problems due to the reduction in sulphuric acid to neutralize.
- Reduced maintenance work due to the increased life of anodising solution.

OPERATING CONDITIONS

Sulphuric acid concentration	160-180g/l
ANOLIFE X70 conc.	15-25g/l
Aluminium concentration	5-26g/l
Temperature	25-30 C
Current density	1.2-1.5 A/dm ²
Voltage	15-18 Volts

PREPARATION

Simply add ANOLIFE X70 to the anodising solution to achieve a concentration of between 15-25 g/l. The bath is now ready for use.

1/2

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Given recommended working conditions, consumption including an average drag-out should be 3 g/L of ANOLIFE X70 for each square meter of aluminium processed.

MAINTENANCE AND CONTROL

Sulphuric acid can be determined with volumetric or potentiometric systems as in conventional baths.

Aluminium can be determined by volumetric method or by A.A. as in a conventional bath.

ANOLIFE X70

REAGENTS

Sulphuric acid (concentrated)

Potassium permanganate (solution) 1N

METHOD

- With a graduated pipette measure 20 ml of bath solution into a 200 ml flask.
- Carefully add 20 ml of sulphuric acid (conc.)
- Titrate (without cooling) with potassium permanganate until the solution turns pink and persists for 1 minute.
- Record titrate used and call "A"

CALCULATION

$A \times 1.75 = \text{g/l of ANOLIFE X70}$

NOTE: Concentration range 15-25 g/l

HEALTH AND SAFETY

ANOLIFE X70 is a weak organic acid and metallic salts compound in a white crystalline powder form. As with all chemicals care must be taken whilst handling. Inhalation, ingestion, contact with eyes and skin may cause irritation. Any contact should be flushed with clean water. If irritation persists seek medical advice. If swallowed seek medical advice. It is essential that protective clothing including face mask, eye protection and rubber gloves are worn when handling ANOLIFE X70.

STORAGE

ANOLIFE X70 drums must be kept tightly closed during storage. It is good practice to keep all chemicals in a locked weatherproof area to control access of unauthorized persons and to protect chemicals from the elements.

PACKAGING

ANOLIFE X70 is available in non-returnable 25 or 50 kg plastic drums.

For further information on ANOLIFE X70 or any other of the wide range of products we have developed for use in the aluminium finishing industry please contact the Marketing or Technical department of AUSTRALIAN CHEMICALS AND COATINGS.